

# Transponder

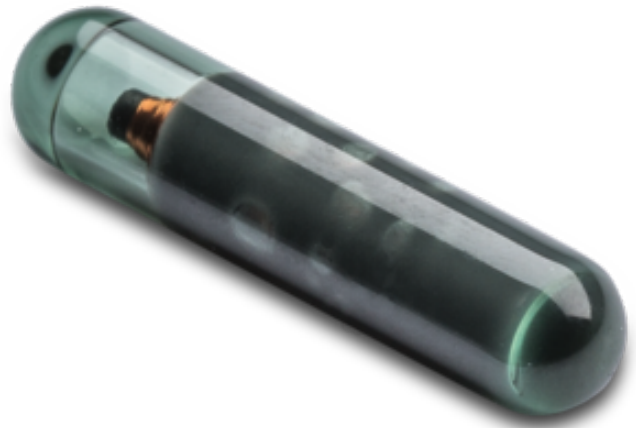
## Glass TAG

**PART ID:**  
**1042**

Glass Tag transponders can be easily inserted or molded into a variety of materials, to enable automated asset identification and management applications using RFID. Manufactured with patented dBond™ technology, these tags deliver exceptional size to performance ratios, in both low frequency and high frequency applications. The inherent properties of glass protect embedded electronics from exposure to harsh chemicals, ensure that tag readability is unaffected by immersion in liquids, and provide excellent stability over fluctuating temperatures.

### Main Specifications

|                       |   |
|-----------------------|---|
| Frequencies           | <b>LF HF UHF</b>                                      |
| Material              | Glass   |
| Operating Temperature | -25°C to 85°C   |
| IP Class              | IP68  |
| Compliance            | RoHs & Reach, CE                                      |
| Key Features          | Small Size, Heat Tolerant, Versatile, High Durability |



### Full Specifications

|                         |   |
|-------------------------|---|
| Product ID              | 1042  |
| Material                | Glass   |
| Shape                   | Potted  |
| Long Description        | Glass Tag transponders can be easily inserted or molded into a variety of materials, to enable automated asset identification and management applications using RFID. Manufactured with patented dBond™ technology, these tags deliver exceptional size to performance ratios, in both low frequency and high frequency applications. The inherent properties of glass protect embedded electronics from exposure to harsh chemicals, ensure that tag readability is unaffected by immersion in liquids, and provide excellent stability over fluctuating temperatures. |
| Key Features            | Small Size, Heat Tolerant, Versatile, High Durability   |
| Main Use                | Embeddable RFID   |
| Article Type            | Glass TAG   |
| Color                   | Transparent   |
| Diameter [mm]           | 3.15  |
| Length [mm]             | 13.3  |
| Operating Temp °C (min) | -25   |
| Operating Temp °C (max) | 85  |

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Where application information is given, it is only advisory and does not form part of the specification.

|                       |                  |
|-----------------------|------------------|
| Storage Temp °C (min) | -40              |
| Storage Temp °C (max) | 90               |
| Peak Temp I / °C      | 120              |
| Peak TIME I [h]       | 100              |
| Peak Temp II / °C     | 140              |
| Peak TIME II [h]      | 10               |
| High Temp             | yes              |
| Food compatible       | yes              |
| IP Class              | IP68             |
| Chemical Resistance   | Not Specified    |
| Flame Resistance      | Not Specified    |
| Mechanical Resistance | Not Specified    |
| Attachment Method     | Embed            |
| Compliance            | RoHs & Reach, CE |

## VARIANTS AND ICS

| ID             | Variant     | Band | Type          | ISO                           |
|----------------|-------------|------|---------------|-------------------------------|
| 1042-01-152-00 | 3.15x13.3mm | LF   | EM4200/Unique | ISO/IEC 11784/85 Compatible   |
| 1042-01-112-00 | 3.15x13.3mm | LF   | HITAG S 256   | ISO/IEC 11784 & 11785 & 14223 |
| 1042-01-113-00 | 3.15x13.3mm | LF   | HITAG S 2048  | ISO/IEC 11784 & 11785 & 14223 |
| 1042-01-154-00 | 3.15x13.3mm | LF   | Nova          |                               |
| 1042-01-103-00 | 3.15x13.3mm | LF   | EM 4550       | ISO/IEC 11784/85 Compatible   |
| 1042-01-269-00 | 3.15x13.3mm | HF   | Vigo          | ISO 15693                     |